LISTA 4 - PROBABILIDADE 4

PRESCOMER BOLA BRANCA) = _ 2

(ESLOUMER SOLA VERNELHA) = 4 VENAL VERNELHA) = X14

BOLA BRANCA ESCOLMEN BOLA BRANCA

Prescourier BOLA BRANCA ESCOLATEU BOLA USTOTEURA)

ESCOLLER BOLA BRANCA) = X [314)10] 3+(v+1)] = 1 [x3+x] + 1 [xy [3+1+v]

a)
$$P(x=2) = 1 \cdot 1 = 1$$

2 3 6

$$b) \mathbb{P}(x=3) = \underbrace{1}_{2} \underbrace{2}_{3} \underbrace{1}_{2} + \underbrace{1}_{2} \underbrace{2}_{3} \underbrace{1}_{2} = 2(\underbrace{1}_{2} \underbrace{2}_{3} \underbrace{1}_{2})$$

$$= \underbrace{1}_{2} = \underbrace{1}_{3}$$

$$C)P(x=4) = \frac{1}{2} \cdot \frac{1}{3} \cdot 1 \cdot 1 + \frac{1}{2} \cdot \frac{2}{3} \cdot \frac{1}{2} \cdot 1 + \frac{1}{2} \cdot \frac{2}{3} \cdot \frac{1}{2} \cdot 1$$

$$= \frac{1}{6} + 2\left(\frac{1}{2} \cdot \frac{2}{3} \cdot \frac{1}{2}\right) = \frac{1}{6} + \frac{1}{42} = \frac{1}{6} + \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$$

$$= \frac{1}{6} + 2\left(\frac{1}{2} \cdot \frac{2}{3} \cdot \frac{1}{2}\right) = \frac{1}{6} + \frac{1}{42} = \frac{1}{6} + \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$$

$$P(B|A) = 6.5 = 6.5 = 10 = 5$$

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1	1,1	42	1,3	2,4	15	46
2	2,1	2,2	2.3	2,4	2,5	2,6
3	3 L	3.2	3,3	34	35	3,6
4	17.1	4,2	4,3	4,4	4.5	4.6
5	5, L	5,2	5,3	5,4	5,5	5,6
6	16,1	6.2	6.3	6,5	6,5	6,6

FACES FACES

LOADO 2 DADO

G X G = 36 PARES ORDENADOS

(L, L); (2,2); (3,3); (4,4); (5,5); (6,6) -> 6 PARES ORDED ADOS DE FACES IGUAS

36-61=30 PADES DIFFERENTES - DIVINERO DE PESULTADOS POSSÍVEIS (NRP)

(1,4); (4,1)(2,4); (4,2); (3,4), (4,3); (4,5), (5,4); (4,6); (64) ->10 PARES ORDENADOS CON 1 FACE 4-> NÓMECO DE CABOS FONORÁVEIS (NCF)

P(PROBABILIDADE DO EVENTO) = NCF = 10 = 1 NRP 30 3 (5) (ESCOLHER 2 BOLAS) = $A_{5,2} = 51 = 5.431 = 5.4$ (SON PEPOSI (NO) = (5-2)] = 3] =20

[ESCOLHER 2 BOLAS BRANCAS] = $A_{3,2} = 31 = 321$ SET PEPOSIÇÃO (3-2) 41

(ESCOLMER 2 BOLAS PRETAS) = A 2,2 = 21 = 2 1 = 2 SEN REPOSIÇÃO (2-2)

 $\frac{P(ESCOLHER 2 BOLAS 16UMS) = A_{5,2} + A_{0,2}}{SEN REPOSIÇÃO} = \frac{A_{5,2} + A_{0,2}}{A_{5,2}} + \frac{A_{5,2}}{A_{5,2}} = \frac{6 + 2 = 8}{20} = \frac{2}{5}$

(G) IP(A) = 0,4 P(AUB) = 0,7 P(B) = 2

a) P(AUB) = P(A) + P(B) - P(ADB) 0,7 = 0,4 + x - 0 - x = 0,7 - 0,4 - x = 93 b) SIT, POIS NÃO MÁ INTERCEÇÃO ENTRE A

P(A) = 0,6 P(A) = 0,4 P(A) = 0

EB.

b) (ESCOLMER 2) =
$$A_{8,2} = \frac{81}{(8-2)!} = \frac{8.7 \cdot 61}{6!} = \frac{56}{6!}$$

CIP(AS 2 PRINDRAS PEGAS) =
$$1 - [33 + 14]$$

(1 PORFEITA E L DEPETTUOSA) = $1 - [95 + 95]$
= $1 - 17 = 98$
95 95

*COM POPOSIÇÃO

a) P(AS 2 PRINCIPAS PEGAS) = 10 10 = 144 = 9

(SOCEM DEPETIUOSAS) = 20 20 400 25

b) P(AS 2 PRINCIPAS PEGAS) = 8. 3 = 64 = 4

(SOCEM PORPOTAS PEGAS) = 20 20 400 25

OIP(M) 2 PRINCIPAS PEGAS = $P(\chi_2=P)P(\chi_2=D) + (1 PERFENTA & 1 DEPETTUSA)$ $P(\chi_1=D).P(\chi_2=P) = 8.10 + 12.8 = 192$ 20 20 20 20 20

= 12 25

OU

P(AS 2 PRIMERAS PEGAS) = 1 - [144 + 64] = 1 - 208 = 1912 = 12 = 100 = 100

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